

**DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**NUCLEIC ACID MOLECULES WITH NOVEL CHEMICAL COMPOSITIONS CAPABLE OF  
MODULATING GENE EXPRESSION**

the specification of which is attached hereto unless the following space is checked:

☒ was filed on May 25, 2001 as United States Application Serial Number 09/866,316.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

<u>Number</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>
---------------	----------------	-----------------------------

N/A

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

	<u>Application Number</u>	<u>Filing Date</u>
1.	60/082,404	April 20, 1998

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

	<u>Application Number</u>	<u>Filing Date</u>	<u>Status: patented, pending, abandoned</u>
1.	09/103,636	June 23, 1998	Pending

I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: 020306

Principal attorney or agent: Anita J. Terpstra

Telephone number: 312-913-0001

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: **JAMES THOMPSON**

Inventor's signature: \_\_\_\_\_

Date: 9/12/01

Residence: 705 Barberr Cir., Lafayette, CO 80026

Citizenship: United States of America

Post Office Address: 705 Barberr Cir., Lafayette, CO 80026

Full name of second joint inventor: **LEONID BEIGELMAN**

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: 5530 Colt Dr., Longmont, CO 80503

Citizenship: United States of America

Post Office Address: 5530 Colt Dr., Longmont, CO 80503

Full name of third joint inventor: **JAMES McSWIGGEN**

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: 4866 Franklin Dr., Boulder, Colorado

Citizenship: United States of America

Post Office Address: 4866 Franklin Dr., Boulder, Colorado 80301

Full name of fourth joint inventor: **ALEXANDER KARPEISKY**

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: 420 Vernier Ave., Lafayette, CO 80026

Citizenship: United States of America

Post Office Address: 420 Vernier Ave., Lafayette, CO 80026

Full name of fifth joint inventor: **LAURENT BELLON**

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: 7300 Governors Way, Frederick, MD 21704

Citizenship: France

Post Office Address: 7300 Governors Way, Frederick, MD 21704

Full name of sixth joint inventor: **MARK REYNOLDS**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 3342 Vermont Place, Pleasanton, CA 94588

Citizenship: United States of America

Post Office Address: 3342 Vermont Place, Pleasanton, CA 94588

Full name of seventh joint inventor: **MICHAEL ZWICK**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 2800 Woods Hollow Road, Madison, WI 53711

Citizenship: United States of America

Post Office Address: 2800 Woods Hollow Road, Madison, WI 53711

Full name of eighth joint inventor: **THALE JARVIS**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 2265 Dartmouth Avenue, Boulder, CO 80305

Citizenship: United States of America

Post Office Address: 2265 Dartmouth Avenue, Boulder, CO 80305

Full name of ninth joint inventor: **TOD WOOLF**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 17 Pheasant Avenue, Sudbury, MA 01776

Citizenship: United States

Post Office Address: 17 Pheasant Avenue, Sudbury, MA 01776

Full name of tenth joint inventor: **PETER HAEBERLI**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 705 7<sup>th</sup> St., Berthoud, CO 80513

Citizenship: United States of America

Post Office Address: 705 7<sup>th</sup> St., Berthoud, CO 80513

Full name of eleventh inventor: **JASENKA MATULIC-ADAMIC**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303

Citizenship: Yugoslavia

Post Office Address: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303

**DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**NUCLEIC ACID MOLECULES WITH NOVEL CHEMICAL COMPOSITIONS CAPABLE OF  
MODULATING GENE EXPRESSION**

the specification of which is attached hereto unless the following space is checked:

☒ was filed on May 25, 2001 as United States Application Serial Number 09/866,316.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

<u>Number</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>
---------------	----------------	-----------------------------

N/A

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

	<u>Application Number</u>	<u>Filing Date</u>
1.	60/082,404	April 20, 1998

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

	<u>Application Number</u>	<u>Filing Date</u>	<u>Status: patented, pending, abandoned</u>
1.	09/103,636	June 23, 1998	Pending

I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: 020306

Principal attorney or agent: Anita J. Terpstra

Telephone number: 312-913-0001

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: **JAMES THOMPSON**

Inventor's signature: \_\_\_\_\_  
Residence: 705 Barberry Cir., Lafayette, CO 80026  
Citizenship: United States of America  
Post Office Address: 705 Barberry Cir., Lafayette, CO 80026

Date: \_\_\_\_\_

Full name of second joint inventor: **LEONID BEIGELMAN**

Inventor's signature: *Leonid Beigelman*  
Residence: 5530 Colt Dr., Longmont, CO 80503  
Citizenship: United States of America  
Post Office Address: 5530 Colt Dr., Longmont, CO 80503

Date: 9/5/01

Full name of third joint inventor: **JAMES McSWIGGEN**

Inventor's signature: *James McSwiggen*  
Residence: 4866 Franklin Dr., Boulder, Colorado  
Citizenship: United States of America  
Post Office Address: 4866 Franklin Dr., Boulder, Colorado 80301

Date: 9/5/01

Full name of fourth joint inventor: **ALEXANDER KARPEISKY**

Inventor's signature: *Alexander Karpeisky*  
Residence: 420 Vernier Ave., Lafayette, CO 80026  
Citizenship: United States of America  
Post Office Address: 420 Vernier Ave., Lafayette, CO 80026

Date: 9/5/01

Full name of fifth joint inventor: **LAURENT BELLON**

Inventor's signature: \_\_\_\_\_  
Residence: 7300 Governors Way, Frederick, MD 21704  
Citizenship: France  
Post Office Address: 7300 Governors Way, Frederick, MD 21704

Date: \_\_\_\_\_

Full name of sixth joint inventor: **MARK REYNOLDS**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 3342 Vermont Place, Pleasanton, CA 94588  
Citizenship: United States of America  
Post Office Address: 3342 Vermont Place, Pleasanton, CA 94588

Full name of seventh joint inventor: **MICHAEL ZWICK**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 2800 Woods Hollow Road, Madison, WI 53711  
Citizenship: United States of America  
Post Office Address: 2800 Woods Hollow Road, Madison, WI 53711

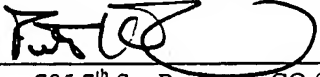
Full name of eighth joint inventor: **THALE JARVIS**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 2265 Dartmouth Avenue, Boulder, CO 80305  
Citizenship: United States of America  
Post Office Address: 2265 Dartmouth Avenue, Boulder, CO 80305

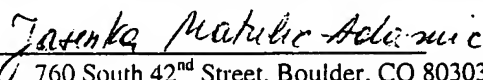
Full name of ninth joint inventor: **TOD WOOLF**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 17 Pheasant Avenue, Sudbury, MA 01776  
Citizenship: United States  
Post Office Address: 17 Pheasant Avenue, Sudbury, MA 01776

Full name of tenth joint inventor: **PETER HAEBERLI**

Inventor's signature:  Date: 9/6/2001  
Residence: 705 7<sup>th</sup> St., Berthoud, CO 80513  
Citizenship: United States of America  
Post Office Address: 705 7<sup>th</sup> St., Berthoud, CO 80513

Full name of eleventh inventor: **JASENKA MATULIC-ADAMIC**

Inventor's signature:  Date: 09/05/01  
Residence: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303  
Citizenship: Yugoslavia  
Post Office Address: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303

**DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**NUCLEIC ACID MOLECULES WITH NOVEL CHEMICAL COMPOSITIONS CAPABLE OF  
MODULATING GENE EXPRESSION**

the specification of which is attached hereto unless the following space is checked:

☒ was filed on May 25, 2001 as United States Application Serial Number 09/866,316.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

<u>Number</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>
---------------	----------------	-----------------------------

N/A

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

	<u>Application Number</u>	<u>Filing Date</u>
1.	60/082,404	April 20, 1998

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

	<u>Application Number</u>	<u>Filing Date</u>	<u>Status: patented, pending, abandoned</u>
1.	09/103,636	June 23, 1998	Pending

I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: 020306

Principal attorney or agent: Anita J. Terpstra

Telephone number: 312-913-0001

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: **JAMES THOMPSON**

Inventor's signature: \_\_\_\_\_  
Residence: 705 Barberry Cir., Lafayette, CO 80026  
Citizenship: United States of America  
Post Office Address: 705 Barberry Cir., Lafayette, CO 80026

Date: \_\_\_\_\_

Full name of second joint inventor: **LEONID BEIGELMAN**

Inventor's signature: \_\_\_\_\_  
Residence: 5530 Colt Dr., Longmont, CO 80503  
Citizenship: United States of America  
Post Office Address: 5530 Colt Dr., Longmont, CO 80503

Date: \_\_\_\_\_

Full name of third joint inventor: **JAMES McSWIGGEN**

Inventor's signature: \_\_\_\_\_  
Residence: 4866 Franklin Dr., Boulder, Colorado  
Citizenship: United States of America  
Post Office Address: 4866 Franklin Dr., Boulder, Colorado 80301

Date: \_\_\_\_\_

Full name of fourth joint inventor: **ALEXANDER KARPEISKY**

Inventor's signature: \_\_\_\_\_  
Residence: 420 Vernier Ave., Lafayette, CO 80026  
Citizenship: United States of America  
Post Office Address: 420 Vernier Ave., Lafayette, CO 80026

Date: \_\_\_\_\_

Full name of fifth joint inventor: **LAURENT BELLON**

Inventor's signature: \_\_\_\_\_  
Residence: 7300 Governors Way, Frederick, MD 21704  
Citizenship: France  
Post Office Address: 7300 Governors Way, Frederick, MD 21704

Date: \_\_\_\_\_



Full name of sixth joint inventor: **MARK REYNOLDS**

Inventor's signature: *Mark Reynolds*  
Residence: 3342 Vermont Place, Pleasanton, CA 94588  
Citizenship: United States of America  
Post Office Address: 3342 Vermont Place, Pleasanton, CA 94588

Date: 9/19/2001

Full name of seventh joint inventor: **MICHAEL ZWICK**

Inventor's signature: \_\_\_\_\_  
Residence: 2800 Woods Hollow Road, Madison, WI 53711  
Citizenship: United States of America  
Post Office Address: 2800 Woods Hollow Road, Madison, WI 53711

Date: \_\_\_\_\_

Full name of eighth joint inventor: **THALE JARVIS**

Inventor's signature: \_\_\_\_\_  
Residence: 2265 Dartmouth Avenue, Boulder, CO 80305  
Citizenship: United States of America  
Post Office Address: 2265 Dartmouth Avenue, Boulder, CO 80305

Date: \_\_\_\_\_

Full name of ninth joint inventor: **TOD WOOLF**

Inventor's signature: \_\_\_\_\_  
Residence: 17 Pheasant Avenue, Sudbury, MA 01776  
Citizenship: United States  
Post Office Address: 17 Pheasant Avenue, Sudbury, MA 01776

Date: \_\_\_\_\_

Full name of tenth joint inventor: **PETER HAEBERLI**

Inventor's signature: \_\_\_\_\_  
Residence: 705 7<sup>th</sup> St., Berthoud, CO 80513  
Citizenship: United States of America  
Post Office Address: 705 7<sup>th</sup> St., Berthoud, CO 80513

Date: \_\_\_\_\_

Full name of eleventh inventor: **JASENKA MATULIC-ADAMIC**

Inventor's signature: \_\_\_\_\_  
Residence: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303  
Citizenship: Yugoslavia  
Post Office Address: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303

Date: \_\_\_\_\_

**DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**NUCLEIC ACID MOLECULES WITH NOVEL CHEMICAL COMPOSITIONS CAPABLE OF  
MODULATING GENE EXPRESSION**

the specification of which is attached hereto unless the following space is checked:

☒ was filed on May 25, 2001 as United States Application Serial Number 09/866,316.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

<u>Number</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>
---------------	----------------	-----------------------------

N/A

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

	<u>Application Number</u>	<u>Filing Date</u>
1.	60/082,404	April 20, 1998

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

	<u>Application Number</u>	<u>Filing Date</u>	<u>Status: patented, pending, abandoned</u>
1.	09/103,636	June 23, 1998	Pending

I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: **020306**

Principal attorney or agent: **Anita J. Terpstra**

Telephone number: **312-913-0001**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: **JAMES THOMPSON**

Inventor's signature: \_\_\_\_\_  
Residence: 705 Barberry Cir., Lafayette, CO 80026  
Citizenship: United States of America  
Post Office Address: 705 Barberry Cir., Lafayette, CO 80026

Date: \_\_\_\_\_

Full name of second joint inventor: **LEONID BEIGELMAN**

Inventor's signature: \_\_\_\_\_  
Residence: 5530 Colt Dr., Longmont, CO 80503  
Citizenship: United States of America  
Post Office Address: 5530 Colt Dr., Longmont, CO 80503

Date: \_\_\_\_\_

Full name of third joint inventor: **JAMES McSWIGGEN**

Inventor's signature: \_\_\_\_\_  
Residence: 4866 Franklin Dr., Boulder, Colorado  
Citizenship: United States of America  
Post Office Address: 4866 Franklin Dr., Boulder, Colorado 80301

Date: \_\_\_\_\_

Full name of fourth joint inventor: **ALEXANDER KARPEISKY**

Inventor's signature: \_\_\_\_\_  
Residence: 420 Vernier Ave., Lafayette, CO 80026  
Citizenship: United States of America  
Post Office Address: 420 Vernier Ave., Lafayette, CO 80026

Date: \_\_\_\_\_

Full name of fifth joint inventor: **LAURENT BELLON**

Inventor's signature: \_\_\_\_\_  
Residence: 7300 Governors Way, Frederick, MD 21704  
Citizenship: France  
Post Office Address: 7300 Governors Way, Frederick, MD 21704

Date: \_\_\_\_\_

Full name of sixth joint inventor: **MARK REYNOLDS**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 3342 Vermont Place, Pleasanton, CA 94588  
Citizenship: United States of America  
Post Office Address: 3342 Vermont Place, Pleasanton, CA 94588

Full name of seventh joint inventor: **MICHAEL ZWICK**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 2800 Woods Hollow Road, Madison, WI 53711  
Citizenship: United States of America  
Post Office Address: 2800 Woods Hollow Road, Madison, WI 53711

Full name of eighth joint inventor: **THALE JARVIS**

Inventor's signature: Thale C. Jarvis Date: 9/10/01  
Residence: 2265 Dartmouth Avenue, Boulder, CO 80305  
Citizenship: United States of America  
Post Office Address: 2265 Dartmouth Avenue, Boulder, CO 80305

Full name of ninth joint inventor: **TOD WOOLF**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 17 Pheasant Avenue, Sudbury, MA 01776  
Citizenship: United States  
Post Office Address: 17 Pheasant Avenue, Sudbury, MA 01776

Full name of tenth joint inventor: **PETER HAEBERLI**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 705 7<sup>th</sup> St., Berthoud, CO 80513  
Citizenship: United States of America  
Post Office Address: 705 7<sup>th</sup> St., Berthoud, CO 80513

Full name of eleventh inventor: **JASENKA MATULIC-ADAMIC**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303  
Citizenship: Yugoslavia  
Post Office Address: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303

**DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**NUCLEIC ACID MOLECULES WITH NOVEL CHEMICAL COMPOSITIONS CAPABLE OF  
MODULATING GENE EXPRESSION**

the specification of which is attached hereto unless the following space is checked:

☒ was filed on May 25, 2001 as United States Application Serial Number 09/866,316.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

<u>Number</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>
---------------	----------------	-----------------------------

N/A

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

	<u>Application Number</u>	<u>Filing Date</u>
1.	60/082,404	April 20, 1998

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

	<u>Application Number</u>	<u>Filing Date</u>	<u>Status: patented, pending, abandoned</u>
1.	09/103,636	June 23, 1998	Pending

I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: **020306**

Principal attorney or agent: **Anita J. Terpstra**

Telephone number: **312-913-0001**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: **JAMES THOMPSON**

Inventor's signature: \_\_\_\_\_  
Residence: **705 Barberry Cir., Lafayette, CO 80026**  
Citizenship: **United States of America**  
Post Office Address: **705 Barberry Cir., Lafayette, CO 80026**

Date: \_\_\_\_\_

Full name of second joint inventor: **LEONID BEIGELMAN**

Inventor's signature: \_\_\_\_\_  
Residence: **5530 Colt Dr., Longmont, CO 80503**  
Citizenship: **United States of America**  
Post Office Address: **5530 Colt Dr., Longmont, CO 80503**

Date: \_\_\_\_\_

Full name of third joint inventor: **JAMES McSWIGGEN**

Inventor's signature: \_\_\_\_\_  
Residence: **4866 Franklin Dr., Boulder, Colorado**  
Citizenship: **United States of America**  
Post Office Address: **4866 Franklin Dr., Boulder, Colorado 80301**

Date: \_\_\_\_\_

Full name of fourth joint inventor: **ALEXANDER KARPEISKY**

Inventor's signature: \_\_\_\_\_  
Residence: **420 Vernier Ave., Lafayette, CO 80026**  
Citizenship: **United States of America**  
Post Office Address: **420 Vernier Ave., Lafayette, CO 80026**

Date: \_\_\_\_\_

Full name of fifth joint inventor: **LAURENT BELLON**

Inventor's signature: \_\_\_\_\_  
Residence: **7300 Governors Way, Frederick, MD 21704**  
Citizenship: **France**  
Post Office Address: **7300 Governors Way, Frederick, MD 21704**

Date: \_\_\_\_\_

Full name of sixth joint inventor: **MARK REYNOLDS**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 3342 Vermont Place, Pleasanton, CA 94588  
Citizenship: United States of America  
Post Office Address: 3342 Vermont Place, Pleasanton, CA 94588

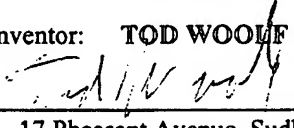
Full name of seventh joint inventor: **MICHAEL ZWICK**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 2800 Woods Hollow Road, Madison, WI 53711  
Citizenship: United States of America  
Post Office Address: 2800 Woods Hollow Road, Madison, WI 53711

Full name of eighth joint inventor: **THALE JARVIS**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 2265 Dartmouth Avenue, Boulder, CO 80305  
Citizenship: United States of America  
Post Office Address: 2265 Dartmouth Avenue, Boulder, CO 80305

Full name of ninth joint inventor: **TOD WOOLF**

Inventor's signature:  Date: 10/12/01  
Residence: 17 Pheasant Avenue, Sudbury, MA 01776  
Citizenship: United States  
Post Office Address: 17 Pheasant Avenue, Sudbury, MA 01776

Full name of tenth joint inventor: **PETER HAEBERLI**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 705 7<sup>th</sup> St., Berthoud, CO 80513  
Citizenship: United States of America  
Post Office Address: 705 7<sup>th</sup> St., Berthoud, CO 80513

Full name of eleventh inventor: **JASENKA MATULIC-ADAMIC**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303  
Citizenship: Yugoslavia  
Post Office Address: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303

## DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

### NUCLEIC ACID MOLECULES WITH NOVEL CHEMICAL COMPOSITIONS CAPABLE OF MODULATING GENE EXPRESSION

the specification of which is attached hereto unless the following space is checked:

☒ was filed on May 25, 2001 as United States Application Serial Number 09/866,316.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

<u>Number</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>
---------------	----------------	-----------------------------

N/A

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

	<u>Application Number</u>	<u>Filing Date</u>
1.	60/082,404	April 20, 1998

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

	<u>Application Number</u>	<u>Filing Date</u>	<u>Status: patented, pending, abandoned</u>
1.	09/103,636	June 23, 1998	Pending



I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: 020306  
Principal attorney or agent: Anita J. Terpstra  
Telephone number: 312-913-0001

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: **JAMES THOMPSON**

Inventor's signature: \_\_\_\_\_  
Residence: 705 Barberry Cir., Lafayette, CO 80026  
Citizenship: United States of America  
Post Office Address: 705 Barberry Cir., Lafayette, CO 80026

Date: \_\_\_\_\_

Full name of second joint inventor: **LEONID BEIGELMAN**

Inventor's signature: \_\_\_\_\_  
Residence: 5530 Colt Dr., Longmont, CO 80503  
Citizenship: United States of America  
Post Office Address: 5530 Colt Dr., Longmont, CO 80503

Date: \_\_\_\_\_

Full name of third joint inventor: **JAMES McSWIGGEN**

Inventor's signature: \_\_\_\_\_  
Residence: 4866 Franklin Dr., Boulder, Colorado  
Citizenship: United States of America  
Post Office Address: 4866 Franklin Dr., Boulder, Colorado 80301

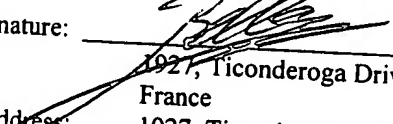
Date: \_\_\_\_\_

Full name of fourth joint inventor: **ALEXANDER KARPEISKY**

Inventor's signature: \_\_\_\_\_  
Residence: 420 Vernier Ave., Lafayette, CO 80026  
Citizenship: United States of America  
Post Office Address: 420 Vernier Ave., Lafayette, CO 80026

Date: \_\_\_\_\_

Full name of fifth joint inventor: **LAURENT BELLON**

Inventor's signature:   
Residence: 1927, Ticonderoga Drive, San Mateo, CA 94402  
Citizenship: France  
Post Office Address: 1927, Ticonderoga Drive, San Mateo, CA 94402

Date: 01/13/03

Full name of sixth joint inventor: **MARK REYNOLDS**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 3342 Vermont Place, Pleasanton, CA 94588  
Citizenship: United States of America  
Post Office Address: 3342 Vermont Place, Pleasanton, CA 94588

Full name of seventh joint inventor: **MICHAEL ZWICK**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: W7060 Thoman Road, Monticello, WI 53570  
Citizenship: United States of America  
Post Office Address: W7060 Thoman Road, Monticello, WI 53570

Full name of eighth joint inventor: **THALE JARVIS**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 2265 Dartmouth Avenue, Boulder, CO 80305  
Citizenship: United States of America  
Post Office Address: 2265 Dartmouth Avenue, Boulder, CO 80305

Full name of ninth joint inventor: **TOD WOOLF**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 17 Pheasant Avenue, Sudbury, MA 01776  
Citizenship: United States  
Post Office Address: 17 Pheasant Avenue, Sudbury, MA 01776

Full name of tenth joint inventor: **PETER HAEBERLI**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 705 7<sup>th</sup> St., Berthoud, CO 80513  
Citizenship: United States of America  
Post Office Address: 705 7<sup>th</sup> St., Berthoud, CO 80513

Full name of eleventh inventor: **JASENKA MATULIC-ADAMIC**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303  
Citizenship: Yugoslavia  
Post Office Address: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303

**DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**NUCLEIC ACID MOLECULES WITH NOVEL CHEMICAL COMPOSITIONS CAPABLE OF  
MODULATING GENE EXPRESSION**

the specification of which is attached hereto unless the following space is checked:

☒ was filed on May 25, 2001 as United States Application Serial Number 09/866,316.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

<u>Number</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>
---------------	----------------	-----------------------------

N/A

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

	<u>Application Number</u>	<u>Filing Date</u>
1.	60/082,404	April 20, 1998.

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

	<u>Application Number</u>	<u>Filing Date</u>	<u>Status: patented, pending, abandoned</u>
1.	09/103,636	June 23, 1998	Pending

I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: **020306**

Principal attorney or agent: Anita J. Terpstra

Telephone number: 312-913-0001

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: **JAMES THOMPSON**

Inventor's signature: \_\_\_\_\_  
Residence: 705 Barberry Cir., Lafayette, CO 80026  
Citizenship: United States of America  
Post Office Address: 705 Barberry Cir., Lafayette, CO 80026

Date: \_\_\_\_\_

Full name of second joint inventor: **LEONID BEIGELMAN**

Inventor's signature: \_\_\_\_\_  
Residence: 5530 Colt Dr., Longmont, CO 80503  
Citizenship: United States of America  
Post Office Address: 5530 Colt Dr., Longmont, CO 80503

Date: \_\_\_\_\_

Full name of third joint inventor: **JAMES McSWIGGEN**

Inventor's signature: \_\_\_\_\_  
Residence: 4866 Franklin Dr., Boulder, Colorado  
Citizenship: United States of America  
Post Office Address: 4866 Franklin Dr., Boulder, Colorado 80301

Date: \_\_\_\_\_

Full name of fourth joint inventor: **ALEXANDER KARPEISKY**

Inventor's signature: \_\_\_\_\_  
Residence: 420 Vernier Ave., Lafayette, CO 80026  
Citizenship: United States of America  
Post Office Address: 420 Vernier Ave., Lafayette, CO 80026

Date: \_\_\_\_\_

Full name of fifth joint inventor: **LAURENT BELLON**

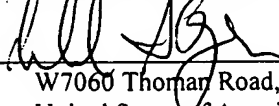
Inventor's signature: \_\_\_\_\_  
Residence: \_\_\_\_\_  
Citizenship: France  
Post Office Address: \_\_\_\_\_

Date: \_\_\_\_\_

Full name of sixth joint inventor: **MARK REYNOLDS**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 3342 Vermont Place, Pleasanton, CA 94588  
Citizenship: United States of America  
Post Office Address: 3342 Vermont Place, Pleasanton, CA 94588

Full name of seventh joint inventor: **MICHAEL ZWICK**

Inventor's signature:  Date: 1/13/03  
Residence: W7060 Thoman Road, Monticello, WI 53570  
Citizenship: United States of America  
Post Office Address: W7060 Thoman Road, Monticello, WI 53570

Full name of eighth joint inventor: **THALE JARVIS**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 2265 Dartmouth Avenue, Boulder, CO 80305  
Citizenship: United States of America  
Post Office Address: 2265 Dartmouth Avenue, Boulder, CO 80305

Full name of ninth joint inventor: **TOD WOOLF**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 17 Pheasant Avenue, Sudbury, MA 01776  
Citizenship: United States  
Post Office Address: 17 Pheasant Avenue, Sudbury, MA 01776

Full name of tenth joint inventor: **PETER HAEBERLI**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 705 7<sup>th</sup> St., Berthoud, CO 80513  
Citizenship: United States of America  
Post Office Address: 705 7<sup>th</sup> St., Berthoud, CO 80513

Full name of eleventh inventor: **JASENKA MATULIC-ADAMIC**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303  
Citizenship: Yugoslavia  
Post Office Address: 760 South 42<sup>nd</sup> Street, Boulder, CO 80303